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A NEARLY COMPLETE CENSUS OF YOUNG STARS DISTRIBUTION IN THE
NEAREST MOLECULAR CLOUDS

Grant NAG5-6752

Final Report

For the Period 1 January 1998 through 30 June 2001

Principal Investigator

Dr. Philip C. Myers

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Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138

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A Nearly Complete Census of Young Stars Distribution in the Nearest Molecular Clouds

Under this grant we prepared a program of observations based on our previous plans for observations with the WIRE satellite. Our main effort was to use our WIRE plans to prepare estimates for a SIRTf Legacy Science proposal, From Molecular Cores to Planets (N. Evans, PI).

For this purpose, L. Allen compiled catalogs of dense cores with and without associated stars, of stars in the youngest evolutionary stages (Class 0, I, and II), and of embedded clusters observed in the near infrared. Further, Tyler Bourke, Mario van den Ancker, and Chang Won Lee compiled and edited a refined lists of 150 isolated cores in the nearest star-forming regions within several hundred pc of the Sun, suitable for surveying with SIRTf.

Our SIRTf Legacy Science proposal was selected for funding, and we are continuing with our planning for the observations.

P. Myers
October 2001